	RRRRRRRR	UUU	UUU	NNN NNN	NNN NNN		0000000	FFFFFFFFFFFFF	FFFFFFFFFFFFFF
	RRRRRRRR	UUU	ŬŬŬ	NNN	NNN		0000000	FFFFFFFFFFFFF	FFFFFFFFFFFF
RRR	RRR	UUU	ÜÜÜ	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	ÜÜÜ	ŬŬŬ	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNNN		000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNNN		000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNNN		000	000	FFF	FFF
RRRRI	RRRRRRRR	UUU	UUU	NNN	NNN NNN	000	000	FFFFFFFFFF	FFFFFFFFFF
RRRR	RRRRRRRR	UUU	UUU	NNN	NNN NNN	000	000	FFFFFFFFFF	FFFFFFFFFF
RRRRI	RRRRRRRR	UUU	UUU	NNN	NNN NNN	000	000	FFFFFFFFFF	FFFFFFFFFF
RRR	RRR	UUU	UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNNNNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUU	UUU	NNN	NNN	000	000	FFF	FFF
RRR	RRR	UUUUUUUU		NNN	NNN		0000000	FFF	FFF
RRR	RRR	UUUUUUUU		NNN	NNH		0000000	FFF	FFF
RRR	RRR	UUUUUUUU	UUUUUUU	NNN	NNN	000	0000000	FFF	FFF

_\$2

EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	\$	NN
	\$	

EM VO

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VO

ELSEN V04-000	Revision I	History	F 14 16-Sep-1984 00:22:32 VAX-11 Bliss-32 V4.0-742 Page 2 14-Sep-1984 13:06:06 DISK\$VMSMASTER:[RUNOFF.SRC]ELSEN.BLI;1 (2)
43 445 445 447 449 551 553 54	0042 1 % 0043 1 ! 0044 1 ! 0045 1 ! 0046 1 ! 0047 1 ! 0048 1 ! 0049 1 ! 0050 1 ! 0051 1 !	SBTTL 'Revisi MODIFIED BY: 008 007	KAD00008 Keith Dawson 5-July-1983 Made default spacing agter a note 1 instead of 2. KFA00007 Ken Alden 07-Mar-1983 Global edit of all modules. Updated module names, idents, copyright dates. Changed require files to BLISS library.

EM VO

	14-Sep-1984 13:06:06 DISK\$VMSMASTER:[RUNOFF.SRC]ELSEN.BLI;1 (3)
0054 1 %SBTTL 'Module Level Declarations'	G 14 16-Sep-1984 00:22:32 VAX-11 Bliss-32 V4.0-742 Page 14-Sep-1984 13:06:06 DISK\$VMSMASTER:[RUNOFF.SRC]ELSEN.BLI;1 (3)
0056 1 ! 0057 1 ! TABLE OF CONTENTS:	
0059 1 ! 0060 1 ! INCLUDE FILES: 0061 1 !	
0063 1 LIBRARY 'NXPORT: XPORT'; 0064 1 REQUIRE 'REQ:RNODEF';	! XPORT Library ! RUNOFF variant definitions
U 0196 1 %IF DSRPLUS %THEN U 0197 1 LIBRARY 'REQ:DPLLIB';	! DSRPLUS BLISS Library
0198 1 XELSE 0199 1 LIBRARY 'REQ:DSRLIB'; 0200 1 XFI	! DSR BLISS Library
0201 1 0202 1 ! 0203 1 ! MACROS:	
0205 1 0206 1 EQUATED SYMBOLS:	
0208 1 0209 1 LITERAL 0210 1 LFSPAC = 1, 0211 1 NFSPAC = 1;	!Spacing after end of a list !Spacing after end of a note
0213 1 ! 0214 1 ! OWN STORAGE:	
0216 1 ! 0217 1 ! EXTERNAL REFERENCES: 0218 1 !	
0219 1 0220 1 EXTERNAL 0221 1 FNCT : FNCT DEFINITION, 0222 1 GCA : GCA DEFINITION,	LILIST ELEMENT counters and controls
0224 1 NUMPRM : NUMPRM_DEFINE, 0225 1 PHAN : PHAN_DEFINITION, 0226 1 SCA : SCA_DEFINITION; 0227 1	!.LIST ELEMENT counters and controls.
0228 1 ! 0229 1 0230 1 EXTERNAL LITERAL 0231 1 RNFIFT.	!Error messages
0255 1 0234 1 EXTERNAL ROUTINE	
	0058 1 1 1 1 1 1 1 1 1 1

EP VO

```
H 14
16-Sep-1984 00:22:32
14-Sep-1984 13:06:06
ELSEN
VO4-000
                                                                                                                        VAX-11 Bliss-32 V4.0-742 Page 4
DISK$VMSMASTER:[RUNOFF.SRC]ELSEN.BLI;1 (4)
                      Module Level Declarations
                                 GLOBAL ROUTINE ELSEN (HANDLER_CODE) : NOVALUE =
    FUNCTIONAL DESCRIPTION:
                                           See ABSTRACT, above.
                                   FORMAL PARAMETERS:
                                           HANDLER_CODE indicates which command is to be processed.
                                   IMPLICIT INPUTS:
                                           NUMPRM contains a number, as processed by GETNUM.
                                   IMPLICIT OUTPUTS:
                                                                 None
                                   ROUTINE VALUE:
COMPLETION CODES:
                                                                 None
                                   SIDE EFFECTS: None
                                      BEGIN
                                      LOCAL
                                           DEFAULT SPACING, FINAL SPACING;
                                      !Pop the .LIST and .NOTE stack. IF NOT STKFRM (.HANDLER_CODE)
                                      THEN
                                           RETURN:
                                                                                       !Stack underflow, etc
                                      !Set up default .END xxxx spacing. SELECTONE .HANDLER_CODE OF
                                           SET
                                           [H_END_NOTE] :
                                                 DEFAULT_SPACING = NFSPAC*.SCA_SPACING;
                                           [H_END_LIST] :
                                                 DEFAULT_SPACING = LFSPAC*.SCA_SPACING;
!Drop back one level in list counters.
LSTCNT [CL_INDEX] = .LSTCNT [CL_INDEX] - 1;
                                           TES:
                                            !General coding for both .END LIST and .END NOTE.
                                                 !Generate final spacing after list
IF (NOT .NUM_RESULT)
OR (.NUM_LENGTH EQL 0)
                                                                                                  !If the number is bad,
                                                                                                  for no number was specified,
```

EP VO

```
ELSEN
VO4-000
                                                                                                                                     VAX-11 Bliss-32 V4.0-742 Pag
DISK$VMSMASTER: [RUNOFF.SRC]ELSEN.BLI;1
                        Module Level Declarations
    1777345678901234567890123456789012345678901234
777734567890123488890123456789012345678901234
777777777789012345678901234567890123456789012345678901234
                                                       THEN
!Use default .END xxxx spacing.
FINAL_SPACING = .DEFAULT_SPACING
                                                      ELSE
                                                             !User has specified the .END xxxx skip. !Validate it and then do it.
                                                            FINAL_SPACING = .NUM_VALUE * .SCA_SPACING;
                                                                                                                                     !Convert to .SPACING lines.
                                                             IF .FINAL_SPACING LSS O
                                                            THEN
                                                                   !User said something like .END xxxx -5, !which means to position to 5 lines from the
                                                                        .FNCT_COLLECTING
                                                                                                             !This is TRUE if user is inside a footnote.
                                                                   THEN
                                                                        BEGIN :.END XXX
ERMA (RNFIFT, FALSE);
FINAL_SPACING = .DEFAULT_SPACING
                                                                                                             !. END xxxx with negative value is illegal in a footnote.
                                                                  ELSE
                                                                         IF ABS (.FINAL_SPACING) GEQ .PHAN_LLINES
                                                                                                             !User said something like .END xxxx -9999.
                                                                               BEGIN
                                                                               !Complain to the user ERMA (RNFINM, FALSE);
                                                                              !Use default spacing instead of erroneous spacing FINAL_SPACING = .DEFAULT_SPACING
                                                                               !It's a valid negative skip
                                                                              BEGIN
                                                                              GCPOS(.NUM_VALUE);
                                                                               RETURN
                                                                               END
                                                            END:
                                                !If we arrive here, it's either .END xxxx with no skip specified, !or else the skip is a positive skip.
                                                 !Bad skip specifications continue here too.
                                                 !Check for .END xxxx 0
                                                 IF .FINAL_SPACING NEQ O
                                                       SCA_SPACING is subtracted off because when ENDCHR gets called again (eventually) it will add that many blank
                                                       GCSKIP ( MAX(1, .FINAL_SPACING - (.SCA_SPACING - 1)) );
                                          END:
                                                                                                             !End of ELSEN
```

VC

							TITLE	ELSEN \V04-000\	
							.EXTRN .EXTRN .EXTRN .EXTRN	FNCT, GCA, LSTCNT NUMPRM, PHAN, SCA RNFIFT, RNFINM, ERMA GCPOS, GCSKIP, STKFRM	
							.PSECT	\$CODE\$,NOWRT,2	
		55	000000006	EF 9	E 00002		.ENTRY MOVAB MOVAB	ELSEN, Save R2,R3,R4,R5 NUMPRM+4, R5 SCA+124, R4 HANDLER_CODE, R2	: 0240
			04	AC D	0 00010 D 00014		MOVL PUSHL CALLS	HANDLER_CODE, R2 R2 #1, STKFRM	: 0270
	000000006	EF 01		01 FB 50 E8	B 00016 8 00010		BLR2	W1, STKFRM RO, 1\$:
		3D			1 00021	1\$:	RET CMPL BNEQ	R2, #61	0278
		53	00	52 D 06 1 84 D 13 1 52 D	2 00024 0 00026 1 0002A		MOVI	asca+124, DEFAULT_SPACING	0280
		3B		52 D	1 0002C 2 0002F	2\$:	BRB CMPL BNEQ MOVL	R2, #59	0280 0275 0283
		53	000000006	B4 D	0 00031		MOVL	asca+124, DEFAULT SPACING	0285
		3D	04 FC 08	AO D	7 0003C 9 0003F 5 00043 3 00046	3\$:	MOVL DECL BLBC TSTL BEQL	LSTCNT, RO 4(RO) NUMPRM, 7\$	0295 0296
				A5 D	3 00046		TSTL BEQL_	NUMPRM+12 7\$:
52		65	00	40 1	5 00048 8 0004b 9 0004f		MULL3 BGEQ BLBC CLRL	asca+124, NUMPRM+4, FINAL_SPACING	0304
		OA	000000006	7E D	4 00056		CLRL	FNCT+20, 4\$ -(SP) #RNFIFT	0311
		50	000000006	8F D	D 00058	10.	PUSHL BRB	6\$	0710
		50		FA 6	0 00060 8 00063		MOVL BGEQ	FINAL_SPACING, RO	0319
	0000000G	50 FF		50 0	E 00065 1 00068 9 0006F	5\$:	CMPL	RO, RO RO, aPHAN+4 8\$	
			000000006	50 D 14 1 7E D 8F D	1 00068 9 0006F 9 00071 D 00073 B 00079 0 00080 1 00083		MNEGL CMPL BLSS CLRL PUSHL CALLS MOVL BRB PUSHL SUBL2 INCL PUSHL BGTR MOVL	-(SP) #RNFINM	0324
	0000000G	EF 52		02 F	B 00079 0 00080	75:	CALLS	#2, ERMA DEFAULT_SPACING, FINAL_SPACING 9\$	0326
				65 D	D 00035	85:	BRB	9\$ NUMPRM+4 #1, GCPOS	0332
	000000006	EF		04 0008	B 00087	CR	RET		:
		52	00	14 1 84 C	3 0008F 2 00091	9\$:	SUBL2	11\$ asca+124, R2	0331 0344 0349
				14 1 84 0 52 0 52 0	2 00091 6 00095 D 00097 4 00099		PUSHL	R2 R2	
	00000000	6E EF		01 D	0 0009B	100.	MOVL	R2 10\$ #1, (SP) #1, GCSKIP	
	000000006	13		01 6	0 0009B B 0009E 4 000A5	10\$: 11\$:	RET	WI, GUSKIP	0351

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ELSEN VO4-000 VAX-11 Bliss-32 V4.0-742 Page 7
DISK\$VMSMASTER:[RUNOFF.SRC]ELSEN.BLI;1 (4) Module Level Declarations ; Routine Size: 166 bytes, Routine Base: \$CODE\$ + 0000 !End of module PSECT SUMMARY Bytes Name Attributes \$CODE\$ 166 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) Library Statistics ----- Symbols -----Pages Processing File Loaded Percent Total Mapped Time _\$255\$DUA28:[SYSLIB]XPORT.L32;1 _\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1 1248 00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:ELSEN/OBJ=OBJ\$:ELSEN MSRC\$:ELSEN/UPDATE=(ENH\$:ELSEN)

: Size: 166 code + 0 data bytes
: Run Time: 00:04.7
: Elapsed Time: 00:15.4
: Lines/CPU Min: 4548
: Lexemes/CPU-Min: 11678
: Memory Used: 55 pages
: Compilation Complete

0340 AH-BT13A-SE

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